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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/739,753	12/20/2000	Hee Bok Kang	HME/K-10Q	4978	
7:	590 11/14/2002				
FLESHNER & KIM, LLP			EXAMINER		
P.O. Box 221200 Chantilly, VA 20153-1200				CHAEL K	
			ART UNIT	PAPER NUMBER	

2824
DATE MAILED: 11/14/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

ع <u>ہ</u>		Application No.	Applicant(s)	
		09/739, 7 53	KANG ET AL.	μ
	Office Action Summary	Examiner	Art Unit	
		Michael K. Luhrs	2824	
Period fo				S
I HE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a replepty within the statutory minimum of thirty (ind will apply and will expire SIX (6) MONTH to cause the application to become ARAN	y be timely filed 10) days will be considered timely. 5 from the mailing date of this commun	nication.
1)[Responsive to communication(s) filed on 16	September 2002 .		
2a)□	This action is FINAL . 2b)⊠ 7	This action is non-final.		
3) 🗌 Dispositi	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	wance except for formal matte or <i>Ex parte Quayle</i> , 1935 C.D.	rs, prosecution as to the me 11, 453 O.G. 213.	rits is
4)⊠	Claim(s) 1-24 is/are pending in the application	on.		
	4a) Of the above claim(s) <u>1-14</u> is/are withdraw	wn from consideration.		
5)	Claim(s) is/are allowed.			
6)	Claim(s) is/are rejected.			
7)[🛛	Claim(s) 15-24 is/are objected to.			
8)[Claim(s) are subject to restriction and	or election requirement.		
Applicati	on Papers			
9)[The specification is objected to by the Examir	er.		
10)🛛 🗆	The drawing(s) filed on <u>20 December 2000</u> is/	are: a)⊠ accepted or b)⊡ obje	cted to by the Examiner.	
	Applicant may not request that any objection to t	he drawing(s) be held in abeyand	e. See 37 CFR 1.85(a) .	
11) 🔲 🗆	The proposed drawing correction filed on	is: a)	pproved by the Examiner.	
	If approved, corrected drawings are required in r	eply to this Office action.		
12) 🔲 🗀	The oath or declaration is objected to by the E	xaminer.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13)🛚	Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a)[☑ All b) ☐ Some * c) ☐ None of:			
	1. Certified copies of the priority documer	nts have been received.		
	2. Certified copies of the priority documer	nts have been received in Appl	ication No	
	3. Copies of the certified copies of the pri- application from the International B ee the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	-	3
	cknowledgment is made of a claim for domes	· ·		ication)
a)	☐ The translation of the foreign language procknowledgment is made of a claim for domes	ovisional application has beer	received.	Janony .
Attachment		, , ,		
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152) history .	
J.S. Patent and Tra PTO-326 (Rev		Action Summary	Part of Pape	r No . 6

Application/Control Number: 09/739,753

Art Unit: 2824

Page 2

DETAILED ACTION

Election/Restrictions

- 1. Applicant's election with traverse of the election/restriction requirement in Paper No. 5 is acknowledged. The traversal is on the ground(s) of MPEP \$803 to search burden. This is not found persuasive because the device and method are different inventions.
- 2. The requirement is still deemed proper and is therefore made FINAL.

Claim Objections

- 3. Claim 15 is objected to because of the following informalities; spelling error, line 12, p. 41, change "contract" to --contact--. Appropriate correction is required.
- 4. Claim 15 improvement to the preamble wording is requested as follows: change line 1, of claim 15, to read, --A method for manufacturing a nonvolatile ferroelectric memory device comprising the steps of:--.

Allowable Subject Matter

- 5. Claims 15-24 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

The prior art, (notably, is also by the present applicants), Kang et. al. (USPN 6,319,731 B1) shows the ferroelectric capacitor connection, (layer 105, Fig. 12i), made below the first electrode of the capacitor. This is also consistent with other prior art, e.g. Chen et. al. (USPN 6,238,963 B1). In contrast, claim 15 of the present invention, namely, the limitation of "respectively forming first and second conductive layers that couple the second plugs with the second electrodes of the first and second ferroelectric capacitors:". identifies the conductive layer that forms the connection from the plug to the second electrode of the capacitor-- the second electrode of the capacitor being that it is formed after the first electrode makes the second electrode above the first electrode, i.e. on top, and thus requires the conductive layer making the coupling connection to be situated from the plug, up, and over, the second electrode of the capacitor. This

Application/Control Number: 09/739,753

Art Unit: 2824

connection formation method was found in Brassington et. al. (USPN 5,350,705), yet Brassington et. al.

lack the method that depicts the capacitor(s) directly above the gate(s) which is provided by the applicants

to complete the method that reduces the overall sizing, i.e. the applicant is claiming to first, and second,

capacitors over the first and second split wordlines, would not have been obvious. The examiner also

notes, that such overlap connections are found in other areas of devices, e.g. over pixel electrode, and

reference to Lee, USPN 6,335,211, Fig. 2 is provided in that regard.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Michael K. Luhrs whose telephone number is 703-305-2864. The examiner can normally

be reached on M-F; 8:00 a.m. - 5:00 p.m..

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard

T. Elms can be reached on 703-308-2816.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-

*872-9318 for regular communications and 703-872-9319 for After Final communications.

10. Any inquiry of a general nature or relating to the status of this application or proceeding should be

directed to the receptionist whose telephone number is 703-308-0956.

MKZ

Michael K. Luhrs November 12, 2002

3

Page 3